

## LIST OF CONTENTS

---

Volume 12, Number 1

1988

### CONTENTS

<b>David C. Prosperi</b>	1	Editorial
		<i>Perspective</i>
<b>Britton Harris</b>	3	Prospects for computing in environmental and urban affairs
		<i>Articles</i>
<b>P. D. Zwick</b> <b>D. P. Costakis</b>	13	Quality assurance for a local government geographic information system: A geo-facilities project perspective
<b>Margot W. Garcia</b>	25	Using a forest management allocation and scheduling model for integrated resource planning
<b>James M. Tien</b>	37	Computer applications in U.S. law enforcement
		<i>Overview of New Technology</i>
<b>C. Gustav Lundberg</b> <b>Vincent B. Robinson</b>	49	Computer programs that know: A tutorial
		<i>Reviews</i>
<b>David L. Phillips</b>	73	<i>Microcomputers in urban planning and management</i> by Richard K. Brail
	I	<i>Software Survey Section</i>

V Softstrip® data strip containing the table of contents of this issue

---

Volume 12, Number 2

1988

## CONTENTS

### *Perspective*

**Judith Innes** 77 Effects of data requirements on planning: Case studies of environmental impact assessment and community development block grants

### *Articles*

**Vincent B. Robinson** 89 Some implications of fuzzy set theory applied to geographic databases

**Richard K. Brail** 99 Demographic data organization and microcomputers  
**Samy Amer**

**Richard E. Klosterman** 109 Microcomputer technology and regional planning in the developing world

### *Innovations in Computer Labs*

**John F. Alexander** 117 The GEOPLAN Center  
**Paul D. Zwick**

### *Reviews*

**Earl G. Bossard** 133 *Information systems for government and business – Trends, issues, challenges* by the United Nations Centre for Regional Development (UNCRD)

I *Software Survey Section*

V Softstrip® data strip containing the table of contents of this issue

---

Volume 12, Number 3

1988

## CONTENTS

### *Perspective*

**Jack Dangermond** 137 Trends in GIS and comments

### *Articles*

**Grant Ian Thrall** 161 Green-Space Acquisition Ranking  
**Bert Swanson**  
**Dominic Nozzi** Program (GARP): A computer-assisted decision strategy

**Sam Sherrill** 185 Programming for microcomputer-based data collection

**Theodore K. Miller** 197 An analysis of the relation between stream channel sinuosity and stream channel gradient

### *Reviews*

**Richard E. Klosterman** 209 *Microcomputers for local government planning and management* edited by P. W. Newton and M. A. P. Taylor; *Desktop planning: Microcomputer applications for infrastructure and services planning and management* edited by P. W. Newton, M. A. P. Taylor, and R. Sharpe

**Steven P. French** 212 *Principles of geographical information systems for land resources assessment* by P. A. Burrough

### I *Software Survey Section*

V Softstrip® data strip containing the table of contents of this issue

Volume 12, Number 4

1988

## CONTENTS

*Perspective*

**Patricia G. McIntosh** 213 A computational tutor for architectural design

*Articles*

**Mark T. Brown** 221 A simulation model of hydrology and nutrient dynamics in wetlands

**Sunduck Suh**  
**Moonja Park Kim**  
**Tschango John Kim** 239 ESMAN: An expert system for manufacturing site selection

*Review Article*

**Howard J. Simkowitz** 253 Transportation applications of geographic information systems

*Reviews*

**Nicholas N. Patricios** 273 *Spatial analysis and location-allocation models* edited by Avijit Ghosh and Gerard Rushton

I *List of Contents and Author Index*  
*Volume 12, 1988*

XI *Software Survey Section*

XIII Softstrip® data strip containing the table of contents of this issue

